



S/N 09/636,000

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|             |  |                 |                    |
|-------------|--|-----------------|--------------------|
| Applicant:  | Stephen P. Pope et al.   | Examiner:       | Kevin Michael Burd |
| Serial No.: | 09/636,000   | Group Art Unit: | 2631               |
| Filed:      | August 9, 2000   | Docket:         | BU2446/0033-033001 |
| Title:      | Maximum Likelihood Sequence Estimator which Computes Branch Metrics in Real Time |                 |                    |

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Serial No :09/636,000

Filing Date: August 9, 2000

Title: Maximum Likelihood Sequence Estimator which Computes Branch Metrics in Real Time

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**Page 2**

Dkt: 0033-033001

Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

Brake Hughes PLC  
Customer Number 57246  
703-286-5735

Date May 23, 2006

By



William G. Hughes

Reg. No. 46,112

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 1450, on this 23 day of May, 2006.

\_\_\_\_\_  
Shellie Bailey

  
Signature



Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

|                      |                |
|----------------------|----------------|
| Application Number   | 09/636,000     |
| Filing Date          | August 9, 2000 |
| First Named Inventor | Pope, Stephen  |
| Art Unit             | 2631           |
| Examiner Name        | Burd, Kevin    |

(Use as many sheets as necessary)

Sheet

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of

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Attorney Docket No: BU2446/0033-033001

## US PATENT DOCUMENTS

| Examiner Initial * | Cite No | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Filing Date If Appropriate |
|--------------------|---------|---------------------|------------------|---|----------------------------|
|--------------------|---------|---------------------|------------------|---|----------------------------|

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | T <sup>2</sup> |
|--------------------|---------------------|------------------|---|----------------|
|--------------------|---------------------|------------------|---|----------------|

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|----------------------|---|----------------|
|                    |                      | JOACHIM, HAGENAUER, et al., "A Viterbi Algorithm with Soft-Decision Outputs and its Applications", in Proc. IEEE Global Telecommunications Conference 1989, Dallas, Texas, (Nov. 1989), pp. 1680-1686   |                |

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached



J. Hagenauer and P. Hoeher, "A Viterbi algorithm with soft-decision outputs and its applications," in *Proc. IEEE Global Telecommunications Conference 1989*, Dallas, Texas, Nov. 1989, pp. 1680–1686.

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